

					Pri	inted	l Pa	ge: 1	of 1	
				Sub	ject	Cod	le: F	ROE	073	,
Roll No:										

BTECH (SEM VII) THEORY EXAMINATION 2023-24 CLOUD COMPUTING

TIME: 3 HRS M.MARKS: 70

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

	SECTION A	
<u>Atter</u>	mpt all questions in brief. 2 x 7 =	14
a.	Contrast parallel computing and distributed computing.	
b.	What is IaaS, PaaS, and SaaS?	
c.	What is VM network routing?	
d.	What are security services in the cloud?	
e.	Describe use of HDFS and Namenode in Hadoop.	
f.	List the functional models of GAE.	
g.	List layers used in layered cloud architecture.	
	SECTION B	
tter	mpt any <i>three</i> of the following: $7 \times 3 =$	
a.	What do you mean by cloud federation? Explain the four levels and future federation in detail.	re of
b.	What is cloud security? Explain IAM and its advantages and disadvantage	_
c.	How does an unauthorized access can be detected by the help of virtualization	ation
	techniques?	<u> </u>
d.	Explain Cloud Computing reference model with diagram.	
e.	What is load balancing? What are the advantages of load balancing?	
	SECTION C	
tter	mpt any <i>one</i> part of the following: $7 \times 1 =$	- 7
a.	How Cloud Computing provides scalability and fault tolerance?	
b.	Explain Virtual LAN(VLAN) and Virtual SAN (VSAN) in cloud computing	_
tter	mpt any <i>one</i> part of the following: $7 \times 1 =$	· 7
a.	Explain virtualization of CPU, Memory and I/O devices in detail.	
b.	Contrast the features of Full virtualization with paravirtualization.	
tter	mpt any <i>one</i> part of the following: $7 \times 1 =$	
a.	With a neat diagram explain the Cloud computing delivery models services.	and
b.	Describe NIST cloud reference architecture.	
tter	mpt any <i>one</i> part of the following: $7 \times 1 =$	
a.	What are the different security challenges in cloud computing? Discuss	each
	in brief.	
b.	Illustrate the following in detail:	
	1) Demand-Driven Resource Provisioning	
	2) Event-Driven Resource Provisioning	
tter	mpt any <i>one</i> part of the following: $7 \times 1 =$	- 7
a.	Describe the following in detail:	
	1) Google Cloud Infrastructure	
1.	2) GAE Architecture	
b.	Give elaboration of cloud federation stack and explain it in detail.	